

EAST CENTRAL RAILWAY

Circular No ECR/S&T/JPO/185-A/Pt-II

Date : 24.08.2023

Sub : JPO for carrying out Circuit alteration works in existing functional Relay Room.

Ref : (1) Railway Board JPO No: 2021/Sig/21/Safety Performance, Dt.10.06.2020.
(2) Railway Board letter No: 2023/TT-IV/9/2, Dt.16.06.2023.

<><><><>

Minor/major circuit alteration works inside Relay room (Center/End Goomties/LC gate/IBS/any other Relay huts) are required in connection with commissioning of new works by various executing agencies including the Division itself, minor safety reliability improvement works by Division(Standby axle counters, sliding barriers, Replacement of MLB to ELB, Closure of LC gates, etc.) and completion changes by executing agencies subsequent to commissioning of the work.

In the light of Railway Board's letter No.2023/TT-IV/9, Dt.16.06.2023, following instruction in the form of JPO are issued on modalities for circuit alterations to be carried out in Relay room(s) for strict adherence to ensure safety during and after execution of works.

1.0 GENERAL

- 1.1 **Circuit Alteration works, where change in existing wiring is to be carried out in Relay room, should be done during traffic block/Non interlocking only.**
- 1.2 Requirement may be there for carrying out alteration to existing wiring at one Relay Room or multiple Relay Rooms at a time.
- 1.3 Double locking of Relay room (by Operating & S&T locks) and monitoring thereof through Datalogger shall be effective before taking up wiring alteration works since the starting of pre-works.
- 1.4 In case the work is executed by an agency other than the Division, authorization to regularly serving Railway's SSE/JE/Technician of (or on behalf of) executing agencies for opening of Relay room shall be issued by Sr. DSTE of the Division.
- 1.5 All pre-works without involving interference in running circuit like installation of additional racks/equipments, fixing & wiring of additional relays/equipments, laying of wires from new relay/CT rack to existing working relay/CT rack without insertion in working circuits (relays, EI), wiring of new relay contacts in existing datalogger including validation, writing works, etc. shall be completed in all respect for which disconnection/ traffic block/NI is not required. For such work opening of Relay Room, as per item 1.4, to be authorised by Sr. DSTE.
- 1.6 For preparatory works required by S&T Construction/Project/ Open line/PSUs etc, relay rooms are required to be opened continuously for longer period which even requires entry of persons other than Railway Employees. Staff of Railways (SSE/JE/Technicians) or on behalf of the executing agency shall personally remain present in the Relay room whenever access to contractual staff/ persons other than Railway employees is given to enter the Relay room. In case, he has to leave the Relay room for some reason or for taking break for a substantial time, then the contractual staff/persons other than Railway Employee shall be asked to leave the Room and after that the Relay room shall be closed if there are no Railway Employee to

[Handwritten signature]

[Handwritten signature]

work inside Relay room. A register shall be maintained in the Relay room noting the name and designation of the Railway staff and name and number persons other than Railway employee available inside Relay room from time to time on daily basis.

1.7 Duration for testing after the alteration work allotted in the planning of block/NI shall commensurate with the extent of alteration jointly decided by Sr. DSTE and Sr. DOM on application of executing agency represented by Railways.

2.0 AUTHORIZATION FOR OPENING/CLOSING OF RELAY ROOM.

2.1 Keys for opening of Relay room shall be issued only to the regularly serving Railway's SSE/JE/Technician authorized by Sr.DSTE.

2.2 For works executed by Railway units under the Zone (Const./Project/GSU/Division, etc), key of Relay room shall be issued to SSE or JE or Technician of the concerned executing agencies.

2.3 For works executed by RE and PSUs (RVNL RITES, IRCON etc), key of Relay room shall be issued to SSE or JE or Technician of the Division, preferably, in charge of the maintenance of the station/location where the alteration work is proposed to be taken up.

2.4 In case the executing agency is a private entity or PSUs for siding works, key of the Relay room shall be issued to SSE or JE or Technician of the supervising unit of Railways (Const./Project/Division).

2.5 Keys of Relay room to be issued under express authorization of Sr. DSTE by name of the staff to be issued the key on application by Executing agency/Supervising unit of Railways. Number of staff to be authorized shall be proposed by Executing agency/Supervising unit of Railways as per the requirement. No such authorization is required for Divisional staff.

2.6 During the period of execution of pre works, the Relay room shall be opened only during the day time for the purpose. In case opening of Relay Room is required in night, approval of Sr. DSTE's to be taken.

2.7 SSE/Signal of Divisional control office will prepare daily statement on duration of opening and closing of Relay room ascertained through control message from station to be corroborated by exception reports through Datalogger for appraisal of Sr. DSTE.

3.0 EXECUTION, COMMISSIONING & TESTING OF THE ALTERATION UNDER NI/TRAFFIC BLOCK.

3.1 Discornection/Reconnection protocols shall be followed as per provisions contained in IRSEM and GR by authorized personnel with valid competency certificate.

3.2 After completion of alteration work (during NI/traffic block)SAT/Simulation testing, as applicable, of the alteration works to be carried out in conformity with provisions of IRSEM by the Executing agency jointly with concerned sectional Officer and staff of the Division.

3.3 After reconnecting the field gears, correspondence test of all field gears to be done under direct supervision of the sectional officer of the Division and officer of Railways representing the executing agency/Officer of PSU.

3.4 TI of the section with staff shall be available to assist the Correspondence test.

3.5 SS on duty assisted by SSE/JE of the station and SSE/JE of Railways of (or on behalf of)

Executing agency, shall at all time be available at VDU/Control panel during the correspondence tests to assure himself of correctness of various indications on the panel corresponding to the field gears being tested.

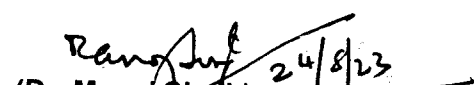
3.6 After completion of correspondence test, safety certificate from the officer of Railways of (or on behalf of) executing agency shall be obtained as per provision of IRSEM prior to giving the reconnection memo.

3.7 After reconnection memo is received by SS/ASM under his acknowledgement, the first train to pass on Main line should be dealt as under:

- a) The reception of the first train should not be on green aspect of first stop signal.
- b) The departure signal for run through trains should be taken off once the train has occupied the berthing portion by seeing the relevant indications on panel/VDU.
- c) This should be applicable for all UP and DN direction trains.
- d) Exception to these instructions will be in case of stations where reception or reception and departure signals are kept in 'Off' position to avoid stalling of loads due to rising gradients or site conditions. Necessary instructions may be incorporated in working rules to admit these trains into the yard at restricted speed by keeping the departure signal 'On'.

3.8 Subsequent to commissioning, the Relay room may be kept open for further 1 to 2 hrs depending upon the extent of alteration carried out for observation of performance of the altered work. Thereafter, the Relay room should be closed and keys handed over with suitable entries in Key register as per extant rule.


24/8/23
(Eknath Mohker)
PCSTE/ECR


24/8/23
(Dr. Manoj Singh)
PCOM/ECR